15

What is claimed is:

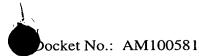


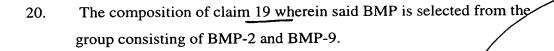
- 1. A composition for inducing cartilaginous tissue formation and maintenance comprising a BMP.
- 2. A method for inducing formation and/or maintenance of chondrocytes or cartilaginous tissue in a patient in need of same, said method comprising administering to said patient an effective amount of the composition of claim 1.
 - 3. A method for treating arthritis, or other cartilaginous tissue defect in a patient in need of same, said method comprising administering to said patient an effective amount of the composition of claim 1.
 - 4. A method for treating articular cartilage defects or damage in a patient in need of same, said method comprising administering to said patient an effective amount of the composition of claim 1.
 - 5. The composition of claim 1, wherein said BMP is selected from the group consisting of BMP-2 and BMP-9.
 - 6. The method of claim 2 wherein said BMP is selected from the group consisting of BMP-2 and BMP-9.
 - 7. The method of claim 3 wherein said BMP is selected from the group consisting of BMP-2 and BMP-9.
- The method of claim 4 wherein said BMP is selected from the group consisting of BMP-2 and BMP-9.



- 9. A composition for blocking or suppressing the inhibitory effects of Ib-1 or TNF said composition comprising a BMP.
- 10. The composition of claim 9, wherein said BMP is selected from the group consisting of BMP-2 and BMP-9.
- A method for blocking or suppressing the inhibitory effect of IL-1 comprising administering an effective amount of a BMP.
 - 12. The method of claim 12 wherein said BMP is selected from the group consisting of BMP-2 and BMP-9.
 - 13. A composition comprising MMCs and a BMP for use in articular cartilage repair.
 - 14. A composition for inducing chondrogenesis said composition comprising IL-11 and BMP-9.
 - 15. A composition for inducing chondrogenesis said composition comprising non-tissue culture expanded cells isolated from bone marrow.
- 15 16. The composition of claim 15 wherein said cells are CD105+ cells.
 - 17. The composition of claim 16 further comprising a suitable matrix.
 - 18. The composition of claim 17 further comprising a bone and/or cartilage inducing factor.
 - 1/2. The composition of claim 18 wherein said factor is a BMP.





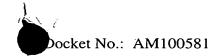


- A method for inducing chondrogenesis in a patient in need of same, said 21. method comprising administering to said patient an effective amount of a composition comprising non-tissue culture expanded cells isolated from bone marrow.
- The method of claim 21 wherein said cells are CD105+ cells. 22.
- The method of claim 22 further comprising administering a bone and or 23. cartilage inducing factor.
- The method of claim 23 wherein said factor is a BMP. 10 24.
 - The method of claim 24 wherein said BMP is selected from the group 25. consisting of BMP-2 and BMP-9.
 - A method for reating arthritis, or other cartilaginous tissue defect in a 26. patient in need of same, said method comprising administering to said patient an effective amount of the composition of claim 15.
 - A method for treating articular cartilage defects or damage in a patient in 27. need of same, said method comprising administering to said patient an effective amount of the composition of claim 15.

20

15

A composition for tissue repair said composition comprising non-tissue culture expanded cells isolated from bone marrow and a bone and/or cartilage inducing factor.





- 29. The composition of claim 28 wherein said isolated cells are CD105+ cells and said factor is a BMP.
- 30. The composition of claim 29 further comprising a suitable matrix.
- 31. The composition of claim 30 wherein said BMP is selected from the group consisting of BMP-2 and BMP-9.



THE THE THE CONTROL OF THE STATE OF THE STAT